REMARKS

Claim Rejections – 35 USC §112

Claim 17 has been rejected as being indefinite under 35 USC §112. Claim 17 has been

amended to depend from independent claim 19. The objection to claim 17 is now believed to be

moot and withdrawal of the same is respectfully requested.

Claim Rejections – 35 USC §102 and §103

Claims 2-8, 11-12, 16-17 and 19 were rejected under 35 U.S.C. §102(e) as being

anticipated by U.S. Patent No. 6,431,189 to Deibert (the "Deibert reference"). Claims 2-8, 17

and 19 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 4,688,585

to Vetter (the "Vetter reference"). Claims 2-8, 11-17, 19, 20 and 22-29 were rejected under 35

U.S.C. §102(b) as being anticipated by U.S. Patent No. 4,552,163 to Biancalana et al. (the

"Biancalana et al. reference"). Claims 10 and 30 were rejected under 35 U.S.C. §103(a) as being

unpatentable over the Deibert, Vetter or Biancalana et al. references in view of U.S. Patent No.

6,029,681 to Gaydoul et al. (the "Gaydoul et al. reference").

It is well established that "an invention is anticipated if the same device, including all the

claim limitations, is shown in a single prior art reference. Every element of the claimed

invention must be literally present, arranged as in the claim." Richardson v. Suzuki Motor Co.

Ltd., 9 USPQ.2d 1913, 1920 (Fed. Cir. 1989). As will be discussed in greater detail below, the

Applicant submits that each and every element and feature recited in independent claims 19, 24

and 26 is neither shown nor suggested in any of the references of record, whether considered

alone or in combination.

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In response to the assertions set forth in the second non-final Office Action, the Applicant

has amended independent claims 19, 24 and 26 to improve their form. Additionally, the

Applicant has rewritten independent claims 10 and 17 to depend from independent claim 19.

Claims 7, 8, 12, 22, and 29 have been amended to conform with the amendments made to their

respective independent base claims. As a result of these amendments, the subject application is

now limited to three (3) independent claims; namely, independent claims 19, 24 and 26.

The Office Action states that "[r]e claims 19, 24 and 26, applicant's argument is

unpersuasive because the term 'the cleaning solution comprising a mixture of compressed air and

an alcohol' is not [a] component for the cleaning apparatus, and also because the cleaning

solution could be any mixture of fluids." (Page 5, lines 3-6). The Applicant respectfully

disagrees with these assertions for at least the following reasons. As an initial matter, the

Applicant submits that the cleaning solution is an expressed element of the claimed apparatus for

cleaning a part. Indeed, the claiming of a solution in combination with other structural elements

is both appropriate and proper under U.S. patent law. Nevertheless, the Applicant has amended

each of the independent claims 19, 24 and 26 to more clearly and positively recite the cleaning

solution as an element of the cleaning apparatus. Specifically, each of the independent claims

19, 24 and 26 has been amended to clearly recite "a cleaning solution comprising a mixture of

compressed air and an alcohol" as an element of the cleaning apparatus. If the assertion that the

cleaning solution is not an element of the cleaning apparatus is maintained, the Applicant

respectfully requests specific rational and support for this position.

Additionally, with regard to the statement in the Office Action that "the cleaning solution

could be any mixture of fluids", although various types of solutions/mixtures could arguably be

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used to clean parts, the Applicant is not claiming "any mixture of fluids", but is instead claiming

a specific cleaning solution comprising a mixture of compressed air and alcohol. As will be

discussed below, there is no teaching or suggestion in the patent references of record regarding

this particular cleaning solution in association with the type of cleaning apparatus recited in

independent claims 19, 24 and 26.

Referring to the Deibert reference, disclosed therein is an apparatus which utilizes a

mixture of fresh water and a disinfectant solution to disinfect a user's hands. (See Abstract).

Notably, there is no indication or suggestion of using a cleaning solution that includes either

compressed air or an alcohol. The Vetter reference discloses an automatic washer for cleaning

hands and sterilizing articles that sprays a cleaning media including water and, if necessary, a

gaseous cleaning media. (See Col. 4, ll. 37-39). Once again, there is no indication of using a

cleaning solution that includes either compressed air or an alcohol. As to the Biancalana et al.

reference, disclosed therein is a dental cleaning device which sprays disinfectant onto the dental

instruments or other dental devices positioned within the housing. However, as indicated on

page 7 of the first Office Action (paper No. 4), the Biancalana et al. reference fails to teach or

suggest the inclusion of a cleaning solution comprising a mixture of compressed air and an

alcohol. Accordingly, none of the asserted patent references disclose or suggest a cleaning

apparatus or device in combination with a cleaning solution comprising a mixture of compressed

air and an alcohol.

Although the Benedict et al. reference (U.S. Patent No. 5,339,843) appears to disclose the

use of an alcohol in association with a controlled agitation cleaning system, as discussed in detail

via the Applicant's response to the first Office Action (Paper No. 5), the cleaning system

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disclosed in the Benedict et al. reference is significantly and distinguishably different from the

cleaning apparatus recited in independent claims 19, 24 and 26. In summary, the Benedict et al.

reference is directed to an immersion-type cleaning system wherein the parts to be cleaned are

placed into a bath of cleaning fluid 14. Additionally, the Benedict et al. reference expressly

states that combustible vapor production is to be specifically avoided (col. 3, ll. 9-13) and that

various features are incorporated into the cleaning system to eliminate flammability hazards.

However, the cleaning apparatus recited in each of the independent claims 19, 24 and 26

utilizes a spray-type system wherein a mixture of compressed air and air borne alcohol is sprayed

onto the part to be cleaned. Indeed, the use of a mixture of compressed air and alcohol is directly

contrary to the teachings of the Benedict et al. reference which, as discussed above, stresses the

importance of minimizing combustible vapor production. The cleaning apparatus recited in

independent claims 19, 24 and 26 clearly does not minimize combustible vapors, but instead

generates an airborne vapor-like solution comprised of compressed air and alcohol that is sprayed

onto the part to be cleaned. Accordingly, the Benedict et al. reference actually teaches away

from the use of an airborne cleaning solution comprised of compressed air and alcohol, as recited

in each of the independent claims 19, 24 and 26.

Moreover, distinct advantages are realized by using the particular cleaning solution recited

in independent claims 19, 24 and 26. For example, a cleaning solution comprised of a mixture

of compressed air and an alcohol provides cleaning capabilities that are not realized by the

cleaning systems disclosed in the cited patent references. Notably, alcohol is itself an excellent

cleaner. However, when mixed with compressed air, the resulting stream of cleaning solution

has even greater cleaning ability due to the impact force provided by the airborne solution stream

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against the part. This advantage is clearly not provided by the cleaning system disclosed in any

of the patent references of record.

Another advantage provided by the particular cleaning solution recited in independent

claims 19, 24 and 26 is the minimization of fluidic waste material. Notably, alcohol has a

relatively high evaporation rate compared to other fluids such as water. The evaporation rate is

even further enhanced when the alcohol is mixed with compressed air to form the cleaning

solution recited in independent claims 19, 24 and 26. As should be appreciated, the use of a

cleaning solution comprised of mixture of compressed air and alcohol tends to reduce the amount

of fluidic waste material generated by the cleaning apparatus. The enhanced evaporation feature

and the resulting reduction in fluidic waste is neither taught nor suggested by any of the cited

patent references, whether considered alone or in combination. As indicated above, with the

exception of the Benedict et al. reference, none of the patent references or record disclose or

suggest a cleaning device which utilizes a cleaning solution including an alcohol, much less a

mixture of compressed air and an alcohol. As a result, the amount of fluidic waste generated by

these prior cleaning devices is substantial in comparison to that of the cleaning apparatus recited

in each of the independent claims 19, 24 and 26.

For at least the reasons discussed above, none of the patent references of record disclose

the subject matter recited in independent claims 19, 24 and 26, whether taken alone or in

combination with one another. Accordingly, the Applicant respectfully requests withdrawal of

the rejection of independent claims 19, 24 and 26.

Claims 2-8 and 10-17 depend either directly or indirectly from independent claim 19 and

are patentable for at least the reasons supporting the patentability of independent base claim 19.

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However, additional reasons support the patentability of the claims depending from independent

base claim 19. For example, dependent claim 13 further recites a mixer, with the valve

supplying the compressed air to the mixer in response to a control signal, and the mixer

intermixing the alcohol with the compressed air to form said cleaning solution. Additionally,

dependent claims 14 and 15 recite further features associated with the mixer. As discussed

above, none of the cited patent references disclose the use of cleaning solution comprised of

compressed air and an alcohol, much less a mixer for forming the recited cleaning solution.

Accordingly, the subject matter recited in dependent claims 13-15 is patentable over the art of

record in addition to the reasons supporting the patentability of independent base claim 19.

Claims 22, 23 and 25 depend directly from independent claim 24, and are patentable for

at least the reasons supporting the patentability of independent base claim 24. Additionally,

claims 27-30 depend directly from independent claim 26, and are patentable for at least the

reasons supporting the patentability of independent base claim 26.

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CONCLUSION

In view of the foregoing remarks, it is respectfully submitted that the Applicant's application is now in condition for allowance with pending claims 2-8, 10-17, 19, 20 and 22-30.

Reconsideration of the subject application is respectfully requested. Timely action towards a Notice of Allowability is hereby solicited. The Examiner is encouraged to contact the undersigned by telephone to resolve any outstanding matters concerning the subject application.

Respectfully submitted,

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